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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/493,526	01/28/2000	Ofir Shalvi	TI-30149	2369
23494	7590 11/26/2003		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			CORRIELUS, JEAN B	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			ART UNIT .	PAPER NUMBER
			2631	X
			DATE MAILED: 11/26/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Dearn S Corrielus   2631							
Examiner  Jean B Corrielus  - The MAIL/ING DATE of this communication appears on the cover sheet with the correspondence address  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  THE MAIL/ING DATE OF THIS COMMUNICATION.  Extensions of fire may be available under the provisions of 3 °C FR 1.136(a). In no event, however, may a rapy be simply filed  staff 3 °C (9 °C FT FT) Set (1) From the mailing date of this communication.  If NO period for really is specified above, the maintaine statistics period will apply and will equil SX (8) MONTH's from the maining date of this communication.  Failur to prove within the sock ore-developed for regive in the statistics period will apply and will equil SX (8) MONTH's from the mailing date of this communication.  Failur to prove within the sock ore-developed for regive in the statistics period will apply and will equil SX (8) MONTH's from the mailing date of this communication.  Failur to prove within the sock ore-developed for regive in the statistic period will apply and will equil SX (8) MONTH's from the mailing date of this communication.  Failur to prove within the sock ore application is specified to be such as a specification in the specification is described.  1) □ Responsive to communication(s) filed on @A November 2003.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) □ sidare pending in the application.  4) □ Claim(s) □ sidare allowed.  6) □ Claim(s) □ sidare objected to by the Examiner.  10) □ The drawing(s) filed on @B January 2000 is/are: a) □ accepted or b) □ objected to by the Examiner.  If approved, corrected drawings are required	*	Application No.	Applicant(s)				
Jean B Corrielus   Z631		09/493,526	SHALVI ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHORTENE STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 3 CFR 1.13(6). In no event, however, may a righty be timely filed after 50 (c) k/CM*Th's from the mailing date of the communication.  It is objected to righty is pecified under the provision of 3 CFR 1.13(6). In no event, however, may a righty be timely filed after 50 (c) k/CM*Th's from the mailing date of the communication.  If No period to righty is pecified under the provision of the provis	Office Action Summary	Examiner	Art Unit				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CPR 1.35(a), in no event, however, may a teply be timely filled  Extensions of time may be available under the provisions of 37 CPR 1.35(a), in no event, however, may a teply be timely filled  Extensions of time may be available under the provisions of 37 CPR 1.35(a), in no event, however, may a teply be timely filled  If the partod for reply is specified above, the maximum statutory period will apply and vall apply and va							
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of aims may be available under the provisions of 37 CPR 1.13(g). In no event, however, may a reply be timely filed after Six (6) MONTHS from the mailing date of this communication.  **Pailure to reply specified age to each sea that may be considered to the communication.  **Pailure to reply within the set or extended period for reply will, by stabilute, cause the application to become ABANDONEO (38 U.S.C. § 133).  **Pailure to reply within the set or extended period for reply will, by stabilute, cause the application to become ABANDONEO (38 U.S.C. § 133).  **Any reply recoved by the Notice later ban these months after the mailing date of this communication, even it timely filed, may reduce any example plant term adjustment. See 37 CPR 1.73(g).  **Status**  1)		ears on the cover sheet with the c	orrespondence address				
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  5) Notice of Informal Patent Application (PTO-152)  6) Other:	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal					

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#### **DETAILED ACTION**

# **Drawings**

1. The drawings are objected to because reference numerals have not been used to identify each element of the drawings. In addition, fig. 4, "interleave" is mistyped as "inteleave". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

In addition, page 6, line 24, "convolution" is mistyped as "cnvolution".

### Claim Objections

3. Claim 1, line 1, ")" needs to be inserted after amended; line 3, "BICM" needs to be expanded; line 2 is the recitation "said encoder" refers to the "improved encoder" or the "BICM encoder" recited in line 1 and 3, respectively? Claim 2 "symbol" is mistyped as "simple". Claim 3, line 1 "coding" needs to be deleted since the claim includes reference to a decoding section as

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...

well; line 2, "an" is mistyped as "am"; line 3, "BICM" needs to be expanded. Appropriate correction is required.

# Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 5, recites "said encoder" however, it is unclear whether said recitation refers to the limitation "a BICM encoder" in line 3 or "the outer Reed\_Solomon encoder" in line 4. The same comment applies equally to claim 3, line 5.

Claim 2 is likewise rejected because of its dependency to claim 1.

# Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

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The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Vijayan et al US Patent No. 6,151,296.

As per claim 1, Vijayan et al discloses a transmitter fig. 2 comprising circuit elements (22-32) functionally equivalent to the claimed BICM encoder; said circuit elements (BICM encoder) concatenated with an outer Reed-Solomon encoder 22 (see abstract); a bit-interleaver 28 interconnected with the (Reed Solomon) encoder 22; a symbol mapper 32 interconnected with said bit interleaver 28.

As per claim 2, the mapper 32 is a QAM Mapper see fig. 2.

As per claim 3, Vijayan et al further teaches a receiver fig. 3 having element 40 functionally equivalent to the claimed scorer for receiving symbols; a bit deinterleaver 50 see col.6, lines 48-51 interconnected with element 40 (scorer) and a convolutional decoder 52 interconnected with said bit deinterleaver 50.

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## Response to Arguments

8. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any response to this final action should be mailed to:

**Box AF** 

Application/Control Number: 09/493,526

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 305-872-9314, (for formal communications; please mark "EXPEDITED PROCEDURE") and (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Corrielus whose telephone number is (703) 305-4023. The examiner can normally be reached on Monday-Thursday from 7:00 A.M. to 5:30 P.M.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

B. CORRIELLA ARY EXAMINER